

## **Term Information**

Effective Term Summer 2016

## **General Information**

Course Bulletin Listing/Subject Area Sociology  
Fiscal Unit/Academic Org Sociology - D0777  
College/Academic Group Arts and Sciences  
Level/Career Graduate  
Course Number/Catalog 7753  
Course Title Introduction to Demographic Analysis  
Transcript Abbreviation Intro Demog Analy  
Course Description An exposition of census data and vital statistics, demographic rates, life tables, cohort analysis, and similar elementary techniques and data sources in demography.  
Semester Credit Hours/Units Fixed: 3

## **Offering Information**

Length Of Course 14 Week  
Flexibly Scheduled Course Never  
Does any section of this course have a distance education component? No  
Grading Basis Letter Grade  
Repeatable No  
Course Components Seminar  
Grade Roster Component Seminar  
Credit Available by Exam No  
Admission Condition Course No  
Off Campus Never  
Campus of Offering Columbus

## **Prerequisites and Exclusions**

Prerequisites/Corequisites Graduate standing, or permission of instructor with approval by Graduate School for undergraduate credit.

Exclusions

## **Cross-Listings**

Cross-Listings

## **Subject/CIP Code**

Subject/CIP Code 45.1101  
Subsidy Level Doctoral Course  
Intended Rank Masters, Doctoral

## Requirement/Elective Designation

The course is an elective (for this or other units) or is a service course for other units

## Course Details

### Course goals or learning objectives/outcomes

- This course is an introduction to demographic analysis. Students will acquire the skills to apply basic demographic techniques that can be used to investigate a wide range of demographic questions and population processes.

### Content Topic List

- Demographic Rates
- Life Tables
- Cohort Analysis
- Decomposition

## Attachments

- 7753.docx: Sociology 7753

*(Syllabus. Owner: Hopkins, Kelly Renee)*

## Comments

## Workflow Information

Status	User(s)	Date/Time	Step
Submitted	Hopkins, Kelly Renee	12/10/2015 11:01 AM	Submitted for Approval
Approved	Williams, Kristi L.	12/10/2015 11:01 AM	Unit Approval
Approved	Haddad, Deborah Moore	12/10/2015 11:28 AM	College Approval
Pending Approval	Nolen, Dawn Vankeerbergen, Bernadette Chantal Hanlin, Deborah Kay Jenkins, Mary Ellen Bigler Hogle, Danielle Nicole	12/10/2015 11:28 AM	ASCCAO Approval

## **SOCIOLOGY 7753: Introduction to Demographic Analysis**

Time: Monday/Wednesday 11:45-1:05  
Room 245, Townshend Hall

Office Hours: Tuesday 3:00-4:00  
Location: 107 Townshend Hall  
Email: zheng.64@sociology.osu.ed

### **Course Description**

This is part of a two-course demographic training series serving as an introduction to the field of demography and population studies. This course covers basic demographic techniques that can be used to investigate a wide range of demographic questions and population processes. More specifically, we will address how demographers (1) measure vital rates (mortality, fertility, migration, and morbidity), population change, composition and structure; (2) identify the laws and regularities governing the relationship between vital rates and population structure; and (3) use these regularities to study population processes and related population, health, social, and economic problems.

### **Prerequisites**

Knowledge of calculus and matrix algebra is advantageous but not required.

### **Required Textbook**

Rowland, Donald T. 2003. *Demographic Methods and Concepts*. Oxford University Press.

Preston, Samuel H., Patrick Heuveline, and Michel Guillot. 2001. *Demography: Measuring and Modeling Population Processes*. Malden, MA: Blackwell Publishers, Inc.

### **Class Structure**

Because we will conduct the class as a combination of lecture and seminar, students are required to do the readings before the class. Class lectures will be interactive and you should be prepared to participate. In addition, you will be asked to give presentation of the articles under the “special topic” which illustrate the applications, limitations or extensions of the method studied.

### **Assignments and Grading**

Assignments in this course consist of eight problem sets, and three or four presentations of an empirical paper.

Problem set (8)	80%
Class presentation / discussion	20%

## **More Books**

Hinde, Andrew. 1998. *Demographic Methods*. Hodder Arnold.

Swanson, David A. and Jacob S. Siegel. 2004. *The Methods and Materials of Demography*. Emerald Group Publishing.

## **Academic Misconduct**

University rule 3335-31-02 requires that “each instructor shall report to the committee on academic misconduct all instances of what he or she believes may be academic misconduct.” Academic Misconduct is defined by the Ohio State University’s Code of Student Conduct as: Any activity that tends to compromise the academic integrity of the university, or subvert the educational process. Examples of academic misconduct include, but are not limited to, cheating on tests, misrepresenting yourself or your work, including passing off other’s work as your own or copying papers off the Internet, and plagiarism. With respect to literature reviews, copying entire sentences or phrases of another author’s summary of relevant research constitutes plagiarism, even if the original author’s sources are cited by the person copying the work. If you are uncertain whether something constitutes academic misconduct, please ask! I will report all forms of suspected academic misconduct.

## **Disabilities**

Any student who feels s/he may need an accommodation based on the impact of a disability should contact me privately to discuss your specific needs as soon as possible. At the appointment we can discuss the course format, anticipate your needs and explore potential accommodations. I rely on the Office for Disability Services (ODS) for assistance in verifying the need for accommodations and developing accommodation strategies. If you have not previously contacted the Office for Disability Services, I encourage you to do so. Contact information for the ODS is: 614.292.6207 (Voice), 614.688.8605 (TTY), 614.688.3665 (Fax), [E-mail: ada-osu@osu.edu](mailto:ada-osu@osu.edu)

## Class Schedule

<b>Aug 21</b>	<b>Introduction to the course</b>  McFalls, Joseph A., Jr. 2007. "Population: A Lively Introduction." Washington, DC: Population Reference Bureau, Bulletin No. 53.3.
<b>Aug 26</b>	<b>Basic demographic concepts and measures</b>  Rowland 1.1-1.2, 1.4-1.8 PHG 1.1-1.5
<b>Aug 28 (Problem Set #1)</b>	<b>Basic demographic concepts and measures (con't)</b>  Rowland 2.1-2.6 PHG 1.6-1.9
<b>Sep 2</b>	<b>Labor day – no class</b>
<b>Sep 4 (Problem Set #1 due)</b>	<b>Demographic data: Census, vital statistics, and surveys</b>  Rowland 1.3  <b>Special Topic: Reporting error</b> Iversen, Roberta R. and Frank F. Furstenberg. 1999. "How Much Do We Count? Interpretation and Error-Making in the Decennial Census." <i>Demography</i> 36:121-134.  <b>Special Topic: Measurement</b> Dan Black, Seth Sanders and Lowell Taylor. 2003. "Measurement of Higher Education in the Census and Current Population Survey." <i>Journal of the American Statistical Association</i> 98(463): 545-554  <i>Also see:</i> -- <a href="#">U.S. Census Bureau</a> home page -- <a href="#">National Center for Health Statistics</a> . A broad array of demographic data available. -- <a href="#">National Vital Statistics Report</a> . (12 monthly issues + provisional tables on births, deaths, marriages.) -- <a href="#">Current Population Survey</a> (Census Bureau) -- <a href="#">National Survey of Family Growth</a> (CDC) -- <a href="#">Survey of Income and Program Participation</a> (Census Bureau) -- <a href="#">Panel Study of Income Dynamics</a> (Michigan) -- <a href="#">National Long Term Care Survey</a> (Duke) -- <a href="#">Health and Retirement Survey</a> (HRS) and Asset and Health Dynamics Among the Oldest Old (AHEAD) (Michigan) -- <a href="#">National Longitudinal Study of Adolescent Health</a> (UNC) Other surveys of possible interest: -- <a href="#">International Social Survey Programme</a> General social surveys in a large set of countries -- <a href="#">Demographic and Health Surveys (DHS)</a> Developing country surveys of fertility and maternal/child health -- <a href="#">National Health and Nutrition Examination Survey</a> -- <a href="#">National Health Interview Survey</a> -- <a href="#">National Survey on Drug Use and Health</a>

	<p>-- <a href="#">Computer Usage Supplement to Current Population Survey</a></p> <p>-- <a href="#">National Longitudinal Surveys</a></p> <p>-- <a href="#">Mid-life in the US (MIDUS)</a></p>
<b>Sep 9 (Problem Set #2)</b>	<p><b>Population structure</b></p> <p>Rowland 3.1-3.6</p> <p>Coale, A.J. 1964. How a population ages and grows younger. Pp. 47-58 in R. Freedman (ed.) Population: <i>The Vital Revolution</i>. Anchor Books.</p>
<b>Sep 11</b>	<p><b>Standardization and decomposition</b></p> <p>Rowland 4.1-4.3</p> <p>PHG 2.1-2.3</p>
<b>Sep 16 (Problem Set #2 due) (Problem Set #3)</b>	<p><b>Standardization and Decomposition (con't)</b></p> <p><b>Special Topic: Compositional Arguments for Changing Crude Rates</b></p> <p>Goldstein, Joshua R. 1999. "The leveling of divorce in the United States." <i>Demography</i> 36:409-414.</p> <p>Smith, Herbert L., S. Philip Morgan, and Tanya Koropecj-Cox. 1996. "A decomposition of trends in the nonmarital fertility ratios of blacks and whites in the United States, 1960-1992." <i>Demography</i> 33:141-151.</p>
<b>Sep 18</b>	<p><b>Lexis Diagrams</b></p> <p>Rowland 4.4</p> <p>PHG 2.4 to 2.6</p> <p>Ryder, Norman B. 1965. "The Cohort as a Concept in the Study of Social Change." <i>American Sociological Review</i> 30:843-861.</p>
<b>Sep 23 (Problem Set #3 due)</b>	<p><b>Lexis Diagrams (con't)</b></p> <p><b>Special Topic: Recognizing Censoring and Selectivity</b></p> <p>Rindfuss, Ronald R., James A. Palmore, and Larry L. Bumpass. 1982. "Selectivity and the Analysis of Birth Intervals from Survey Data." <i>Asian and Pacific Census Forum</i> 8:5-10, 15-16</p>
<b>Sep 25 (Problem Set #4)</b>	<p><b>Lexis Diagrams (con't)</b></p> <p><b>Special Topic: Retrospective Survey Estimates of Mortality</b></p> <p>Merli, Giovanna M. 2000. "Socioeconomic Background and Vietnamese War Mortality during Vietnam's Wars." <i>Demography</i> 37:1-17.</p> <p>Hirschman, Charles, Samuel Preston, and Vu Manh Loi. 1995. "Vietnamese Casualties during the American War: A New Estimate." <i>Population and Development Review</i> 21:783-812.</p>
<b>Sep 30</b>	<p><b>Life Tables: Single Decrement</b></p> <p>Rowland 8.1-8.5</p>

	PHG 3.1-3.5
<b>Oct 2 (Problem Set #4 due)</b>	<b>Life Tables: Single Decrement (con't)</b> PHG 3.6-3.11
<b>Oct 7 (Problem Set #5)</b>	<b>Life Tables: Single Decrement (con't)</b>  <b>Special Topic: applications of life table techniques</b> Elo, Irma T. 2001. "New African American Life Tables from 1935-1940 to 1985-1990." <i>Demography</i> 28(1):97-114.  Luy, M. 2003. "Causes of Male Excess Mortality: Insights from Cloistered Populations." <i>Population and Development Review</i> . 29(4):647-676
<b>Oct 9</b>	<b>Review</b>
<b>Oct 14 (Problem Set #5 due)</b>	<b>Life Tables: Multiple Decrement</b> PHG 4.1-4.4
<b>Oct 16</b>	<b>Life Tables: Multiple Decrement (con't)</b> PHG 4.5-4.7
<b>Oct 21 (Problem Set #6)</b>	<b>Life Tables: Multiple Decrement (con't)</b>  <b>Special Topic: application</b> King, Rosalind Berkowitz. 1999. "Time Spent in Parenthood Status among Adults in the United States." <i>Demography</i> 36:377-385.  Harris, Kathleen Mullan. 1993. "Work and Welfare among Single Mothers in Poverty." <i>American Journal of Sociology</i> 99:317-352.
<b>Oct 23</b>	<b>Measures of Fertility</b> Rowland 7.1-7.8
<b>Oct 28 (Problem Set #6 due)</b>	<b>Measures of Fertility (con't)</b> PHG 5.1-5.5  <b>Special Topic: Critique of Cohort Approach to Fertility</b> Bhrolchain, Marie Ni. 1992. "Period Paramount? A Critique of the Cohort Approach to Fertility." <i>Population and Development Review</i> 18:599-630.
<b>Oct 30 (Problem Set #7)</b>	<b>Measures of Fertility (con't)</b>  <b>Special Topic: Tempo and Quantum</b> Bongaarts, John and Griffith Feeney. 1998. "On the Quantum and Tempo of Fertility." <i>Population and Development Review</i> 24:271-292.

	Lutz, Wolfgang and Vegard Skirbekk. 2005. "Policies Addressing the Tempo Effect in Low-Fertility Countries." <i>Population and Development Review</i> 31:699-720.
<b>Nov 4</b>	<b>Measures of Migration</b>  Rowland 11.1-11.8
<b>Nov 6 (Problem Set #7 due)</b>	<b>Measures of Migration (con't)</b>  <b>Special Topic: The New Immigrant Survey</b> Jasso, Guillermina, Douglas S. Massey, Mark R. Rosenzweig, and James P. Smith. 2000. "The New Immigrant Survey Pilot (NIS-P): Overview and New Findings about U.S. Legal Immigrants and Admission." <i>Demography</i> 37:127-138.  <b>Special Topic: Measuring the Number of Illegal Immigrants in the United States</b> <a href="#">Yearbook of Immigration Statistics</a> --How many immigrants were admitted to the U.S. in 1996? More males or females admitted? Browse site to see range of resources available.
<b>Nov 11</b>	<b>Veteran's day – no class</b>
<b>Nov 13</b>	<b>Special topic: Mortality and Morbidity</b>  Case, Anne and Christine Paxson. 2005. "Sex Differences in Morbidity and Mortality." <i>Demography</i> 42:189-214.  Crimmins, Eileen M., Mark D. Hayward, and Yasuhiko Saito. 1994. "Changing Mortality and Morbidity Rates and the Health Status and Life Expectancy of the Older U.S. Population." <i>Demography</i> 31: 159-175.
<b>Nov 18</b>	<b>Population Projection</b>  Rowland 12.1-12.7  <i>Also see:</i> -- United Nations <a href="#">World Population Prospects</a>
<b>Nov 20</b>	<b>Population Projection (con't)</b>  PHG 6.1-6.4
<b>Nov 25 (Problem Set #8)</b>	<b>Population Projection (con't)</b>  <b>Special Topic: The National Academies Report on Population Projection</b> National Research Council, 2000. <i>Beyond Six Billion</i> , Washington D.C.: National Academy of Sciences Press. Introduction.  <b>Special Topic: Including Migration in Population Projections</b> Morrison, Peter. 2000. "Forecasting Enrollments for Immigrant Entry-Port School Districts." <i>Demography</i> 37:499-510.



<b>Nov 27</b>	<b>Thanksgiving break – no class</b>
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<b>Dec 2 (Problem Set #8 due)</b>	<b>Review</b>
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